
Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

*Prepared for possible presentation at the
303 meeting tentatively scheduled for 9 Dec 64.
4 minutes*

Charts in Annex 1

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

ILLEGIB

GENTLEMEN - THE OBJECTIVE OF THIS VERY BRIEF PRESENTATION IS TO

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

ILLEGIB

FAMILIARIZE YOU WITH PROJECT OXCART. THE AGENCY'S A-12 PROGRAM.

I WILL SHOW A BRIEF HISTORY OF THE PROJECT FROM PROGRAM APPROVAL
TO ITS PRESENT POSTURE. I WILL EXPLAIN THE A-12 RECONNAISSANCE
SYSTEM AND REVIEW THE OPERATIONAL ACCOMPLISHMENTS OF THE PROJECT.

CHART I

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

*BRIEFED GEN HILLPOT 2
DIA*

CHIEF JACKET GEN ROSS

PROJECT OXCART ~~AGENCY A-12 PROGRAM~~

25X1A

INITIATED IN THE LATE 50'S AS A FOLLOW ON VEHICLE TO U-2. 25X1A

HERE WE SEE THE FAMILY OF
PICTURE SHOWS AIRCRAFT ON THE RAMP

25X1A

25X1A

ALSO

~~CHART~~ SHOWS AIRCRAFT ON THE FLIGHT LINE ~~WHERE~~ 25X1A

THE A-12, THE SR-71, THE AIR FORCE STRAT RECON VEHICLE, AND THE

PROTOTYPE INTERCEPTION^{OR}, THE YF-12, WERE ALL TESTED OUT OF PUBLIC

VIEW TO PROTECT KNOWLEDGE OF THEIR EXISTANCE. ~~THE A-12 WAS~~

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

NOTE THE TWO SEATER - TRAINER WHICH HAD SMALL J-75 ENGINES
WHICH WAS USED FOR PILOT CHECKOUT - LIMITED TO MACH 1.6.

CHART II
Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
PRES APPROVING
HISTORY
REC'D IN AUG 1959

ROLLOUT - 2 1/2 YEARS - VERY SOPHISTICATED COMPLICATED AIRCRAFT
FEB 62

CAPABLE OF OPTG AT VERY HIGH ALTITUDE AND HIGH MACH
NUMBER. A/C DEVELOPED BY LAC UNDER DIRECTION OF
KELLY JOHNSON. WHO HAD DESIGNED THE U-2

FIRST FLIGHT - IN A FEW MONTHS - RATHER HAIRY ONLY FLEW A FEW
APR 62

FEET - PROBLEM WITH CONTROLS, SET IT DOWN AGAIN.

EMERG^{O/R} CAP - LIMITING FACTOR WAS AVAILABILITY OF THE AVIONICS
NOV 64
EQUIPMENT.

FULLY O/R - PLACED ON STANDBY BASIS - HAD FUEL STORAGE AND
NOV 65

DETACHMENT HOUSEKEEPING FACILITIES AT SEVERAL

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
FORWARD BASES TO MAINTAIN CAPABILITY TO OPERATE

ON A WORLD-WIDE BASIS. FIELSON, THULE, KADENA,
Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

25X1A INCIRLIK. AIR REFUELING SUPPORT & AIRLIFT OF RECOVERY
PERSONNEL PROVIDED BY [REDACTED] BEALE AFB.

PHASE DOWN - PRESIDENT LOOKING AT THE PROGRESS OF OTHER SYSTEMS
DECISION MADE
IN DEC 1966 SUCH AS SATELLITES AND THE AF SR-71 WHICH WERE
GRADUALLY DEVELOPING READINESS CAPABILITY - DECIDED
TO PHASE OUT THIS PROGRAM - ACTIONS IMPLEMENTED -
BASIC REASONS (GAINING) L2 ✓
TARGET DATE DEC 67. EXPENSIVE PROGRAM TO MAINTAIN;
25X1A (COVERT OPN - CIVILIAN MAINT - CIA PILOTS - AIRLIFT OF
[REDACTED]
PERSONNEL) CHANGING REQMTS AND CHANGING
AS TO
PHILOSOPHY WHETHER A COVERT CAPABILITY WAS

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
NEEDED.

MAY 67 Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
RECEIVED IN W. AIR ESCALATED AND CHINESE COMMUNISTS

WERE DEVELOPING SSM'S AND FURTHER SUSPECTED
INTRODUCTION OF THESE WEAPONS INTO VIET NAM,
PRESIDENT DECISION TO DEPLOY THE OXCART FOR STRATEGIC
COVERAGE OF THIS AREA. SR-71 NOT OPERATIONALLY
READY DUE TO LACK OF AVAILABILITY OF AIRCRAFT
SYSTEMS AND EQUIPMENT. 25X1A

13 - 14 DAYS AFTER ARRIVAL AT [REDACTED] 1ST OPNL MISSION
WAS FLOWN ON 31 MAY.

OPERATION LASTED LITTLE OVER A YEAR - SR-71'S

DEPLOYED IN MARCH 68 - 60 DAY OVERLAP TO INSURE THEY
HAD OPERATIONAL CAPABILITY.

CHART III

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

AIRCRAFT - ALL TITANIUM CONSTRUCTION DELTA WING REFUELABLE

IN FLIGHT TO EXTEND OPERATIONAL RANGE - ANTI RADAR

ENERGY CANTED RUDDER - RADAR X SECTION REDUCTION ^{25X1A}

ABSORPTION MATERIELS. WHICH PROVIDED X SECTION

THAT OF U-2. *GRAPHIC ILLUSTRATION.*

ENGINE - J-58 BYPASS TURBOJET - CONTINUOUS AB FOR SUSTAINED
SUPERSONIC FLT.

SR USES 34 K ENGINE - 20 K HEAVIER, LONGER.

FUEL IN WING - SPEED LIMITED SOMEWHAT DUE TO SEALANT

200 NM 4-5M
PROBS - RESULTS IN RANGE/ALTITUDE DEGRADATION.

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

AIR FLOW INTO ENGINE POSITION PROBLEM &
CONTROLLED BY INLET SPIKE WHICH IS PROGRAMMED FOR

25X1A MACH # TRAVEL TOTAL 26 INCHES AFT AS SPEED INCREASES.

PERFORMANCE

25X1A EXCESS OF [REDACTED] DUE TO ENGINE TEMPS AND LOW

25X1A EQUIVALENT AIRSPEEDS [REDACTED]

25X1A

25X1A SURFACE TEMP UP TO [REDACTED] (HANGAR AFTER FLIGHT

ACTIVATED SPRINKLER SYSTEM)

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

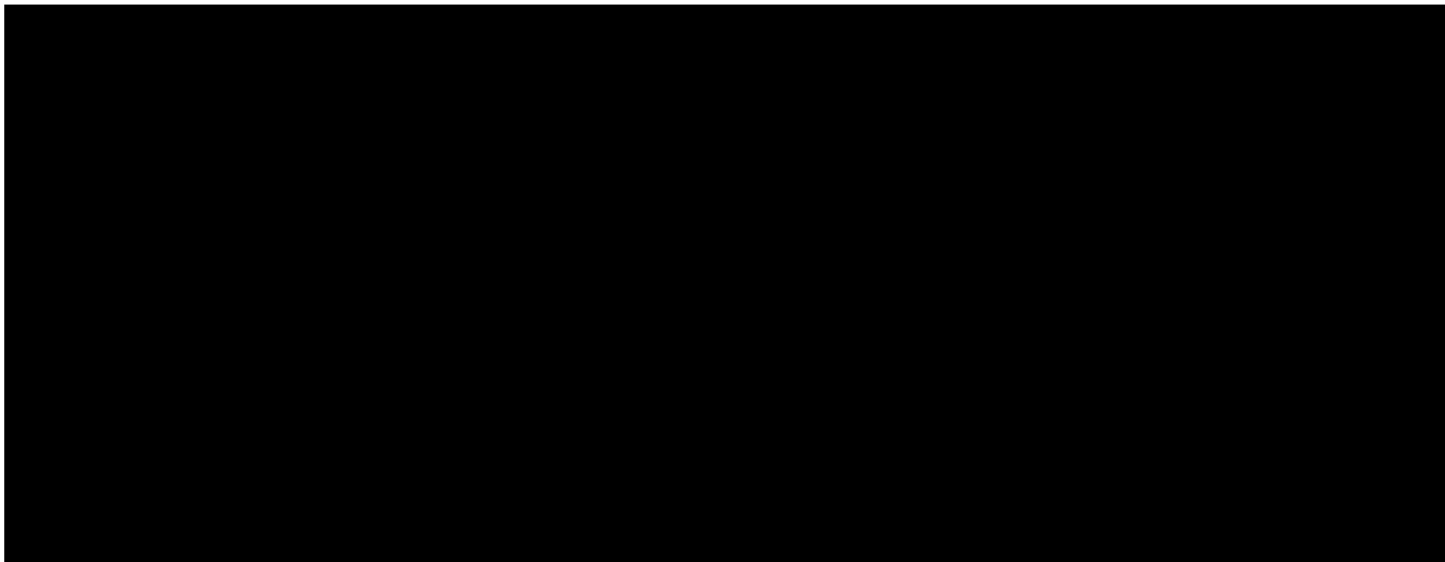
Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4 *WILL CONTINUE TO*
OTHER AIR FORCE PROGRAMS & PARTICULARLY THE

BENEFICIAL TO SUPERSONIC TRANSPORT DEVELOPMENT BY
PROVIDING AIRFRAME DESIGN DATA, DATA ON MATERIALS
FABRICATION (TITANIUM & PLASTICS), FUEL TECHNOLOGY,
ENGINE & INLET PERFORMANCE,
COMPUTER PROGRAMMED AIRCRAFT SYSTEMS AND ESPECIALLY
IN ANTICIPATING OPNL CAPABILITIES AND PROBLEMS RELATED
TO SUPERSONIC FLIGHT.

CHART IV 25X1A

PROFILE

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4



ALL TECHNIQUES RELATED TO THIS PROFILE WERE THE RESULT OF
METICULOUS FLIGHT TEST PROGRAMS RESULTING FROM OPNL EXPERIENCE.

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
ALL OF THE KNOWLEDGE GAINED WAS PASSED ON TO THE AIR FORCE SR-71
PROGRAM.

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

FLIGHT PLANNING FOR ALL A-12 MISSIONS WAS ACCOMPLISHED HERE AT
HQS BECAUSE OF THE COMPLEXITY OF FLIGHT PLANS AND THE AVAILABILITY
OF COMPUTER SERVICES. MOST ON BOARD SYSTEMS, PRINCIPALLY THE
INS AND CAMERAS WERE PROGRAMMED BY COMPUTERIZED OUTPUTS.
MINUTE
RUN 07 MISSION FILM.

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

11
Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

11 OPERATIONAL A/C BUILT

3 TEST (2 TAGBOARD, 1 LAC)

1 TRAINER

LOSSES - LIKE ANY OTHER DEVELOPMENT PROGRAM

25X1A 5 OPERATIONAL AND 1 TEST AIRCRAFT LOST - 5 DUE TO MATERIEL

FAILURE - 1 IMPROPER MAINTENANCE - 9 REMAIN (1 NOT SHOWN -

25X1A

1 - PITOT SYSTEM

2 - CONTROL SYSTEM FAILURE (BINDING ELEVONS)

3 - STABILITY AUGMENTATION SYSTEM - WIRED IMPROPERLY

4 - TAGBOARD

OP 10/10/82
Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

5 - RAN OUT OF FUEL - FUEL GAUGING

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

25X1A

6 - CATASTROPHIC ENGINE FAIL ON TEST FLIGHT

25X1A

SYS 6 - WIDE BAND ELINT COLLECTOR [REDACTED] ANGE.

EWS & CAMERAS - DETAIL ON SUBSEQUENT CHARTS.

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

CHART VI

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

367081A
367081A
367081A

25X1A

EWS - ALL AUTOMATICALLY ACTIVATED - DEVELOPED

25X

- PROVIDED PILOT WITH VISUAL WARNING

NORTH VIETNAMESE FIRED AT MISSION AIRCRAFT ON 3 MISSIONS - TWO
MISSIONS MISSILES MISSED BY CONSIDERABLE DISTANCE. ONE MISSION NEW
TACTIC SALVO TYPE LAUNCHES FROM SEVERAL SITES - 6 TO 9 MISSILES
FIRED. CLOSE ENOUGH THAT PILOT SAW MISSILES PROGRAM IN ON HIM TO

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
HIS REAR AND DETONATE - ONE PASSED JUST ABEAM - NOTED THAT MISSILE
WAS SPIRALING. CONTROL SURFACES JAMMED. HOLE IN AIRCRAFT.

CHART VII

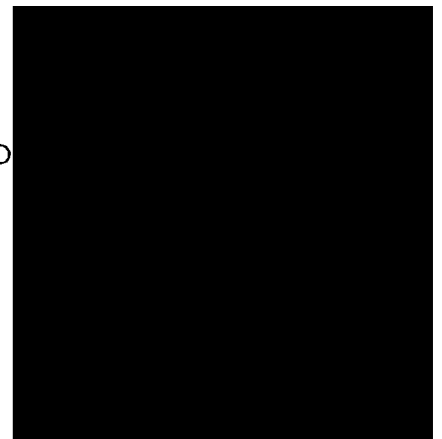
Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

CAMERAS ELINT

TYPE I USED OVER NVN AND NK

18" - 3' RESOLUTION - HAZE DEGRADATIO

ELINT - LINE OF SIGHT COVERAGE.



25X1A

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

USSR SAM Program
Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
RADAR RANGE - FAN SONG SIMULATOR - RADAR X SECTION REDUCTION

STUDIES - ISOLATION STUDIES.

LAC AREA - FLIGHT TEST

25X1A OPS AREA

HOUSING [REDACTED] TOTAL POPULATION AT PROGRAM PEAK.

25X1A

25X1A REST HOUSEKEEPING - MFG TECH REPS

FUEL STORAGE [REDACTED]

HIGH PITCH / ALT
FOR OPTG ENVIRONMENT.

REVIEW OF OPERATIONAL CONCEPT:

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

- * MISSIONS PLANNED, COMMANDED & CONTROLLED FROM OSA HEADQUARTERS.

CLOSE TO THE POLITICAL PULSE & APPROVAL AUTHORITY

TAKE ADVANTAGE OF LATEST GLOBAL WEATHER DATA

DETACHMENT MAINTAINED A QUICK REACTION CAPABILITY IN A

- * 24 HOUR ALERT POSTURE

25X1A

- * MISSIONS FLOWN OUT OF [REDACTED] FORWARD BASE AS REQUIRED DEPENDING

25X1A UPON NOTIFICATION TIME. I. E., 1967 MIDDLE EAST CONFLICT - READY TO

[REDACTED]

25X1A

- * OVERFLIGHTS FLOWN AT [REDACTED] USING MIN PEN ALT OF 76 M.

- * CIA CIVILIAN PILOTS.

- * NO AIRCRAFT MARKINGS.

- * BLA *Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4* *Lesson (would not report to H&C)*

CHAP 10 Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

BLACK SHIELD DEPLOYMENT, *as mentioned earlier, came as a result of increasing concern over possible Chinese introduction of SSJ's into Viet Nam.*

FAR EAST CONTINGENCY DEPLOYMENT - PRIMARY MISSION WAS
SSM SEARCH OF VIET NAM.

COLLECTED PEOPLE AND THINGS - AF SUPPORT - C-141'S
KC-135 SUPPORT FROM BEALE TANKER SQUADRON. SPECIALLY
CONFIGURED TANKERS TO ISOLATE FUEL.

ALL ON SCHEDULE.

CHART X Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

DEPLOY ROUTE

CHART XI Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

DEPLOY SUMMARY

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
CHART XII

TYPICAL BLACK SHIELD MISSION

MISSION'S PHOTOGRAPHY IN DISPLAY

CHART XIII Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

COVERAGE - SHOWS KIND OF COVERAGE CAPABLE OF OBTAINING
ON TWO GOOD SUCCESSIVE WX DAYS.

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
CHART XIV

NORTH KOREA MISSION

IN JAN 68 AFTER PUEBLO CAPTURE, APPROVAL RECEIVED TO
COVER NORTH KOREA - NOT ONLY FOUND THE PUEBLO BUT OBTAINED
EXCELLENT COVERAGE OF NORTH KOREA WHICH HADN'T BEEN AVAIL
TO INTEL COMMUNITY FOR QUITE SOME TIME.

(EXPLAIN MISSION)

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

CHART 24 Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4

OPERATIONAL MISSION SUMMARY

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
CHART XVI

REDEPLOY

Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4
CHART XVII

AIRCRAFT STORED